

Geometry 3-5 Notes: Slopes of Lines (pp 182-183)

1. What is slope?

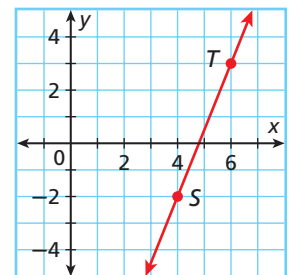
Slope Song
(*Turkey in the Straw*)

Slope is rise over run as we all know.
With the Y's on the top and the X's below.
Subtract the terms to get it right.
Simplify last for a wonderful sight.

(Chorus)

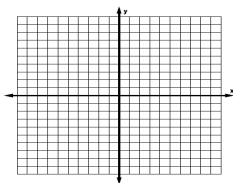
Rise over run, Y's over X.
Rise over run, Y's over X.
Subtract the terms to get it right.
Simplify last for a wonderful sight!

2. Find the slope of the line.

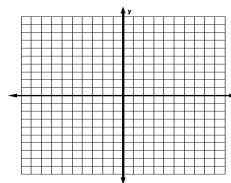


Sketch a graph with the following slopes

3. Positive slope



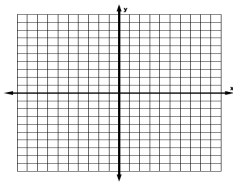
4. Negative Slope



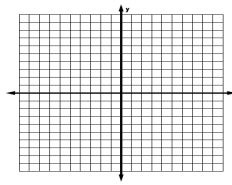
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Sketch a graph with the following slopes

5. Zero Slope

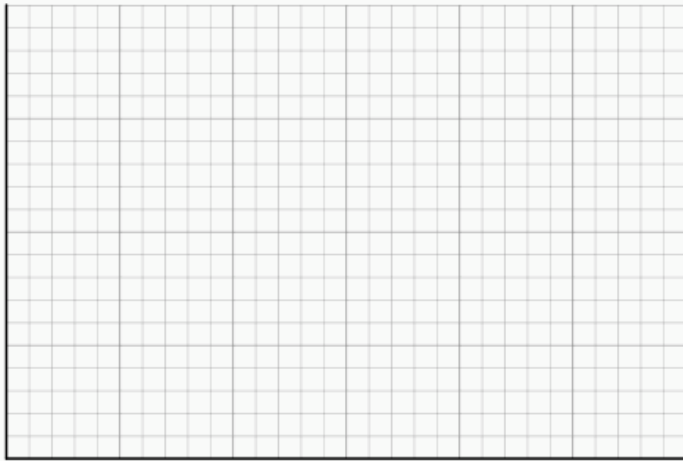


6. Undefined Slope



7.

Biology A migrating bird flying at a constant speed travels 80 miles by 8:00 A.M. and 200 miles by 11:00 A.M. Graph the line that represents the bird's distance traveled. Find and interpret the slope of the line.



8. Open up sketchpad and graph two parallel lines. Find the slopes of the lines. What do you notice about the relationship between the slopes of parallel lines?

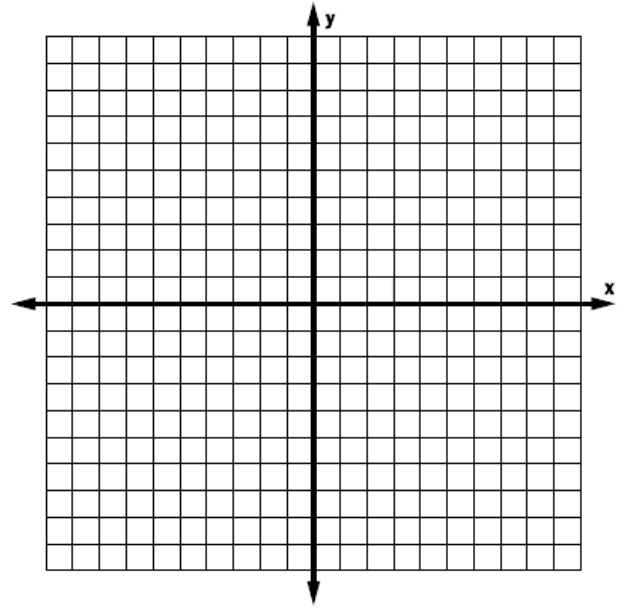
9. Open up sketchpad and graph two parallel lines. Find the slopes of the lines. What do you notice about the relationship between the slopes of parallel lines?

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10. Graph each pair of lines. Use slopes to determine whether the lines are parallel, perpendicular, or neither:

\overline{LM} & \overline{NP} for L (-2, 2) , M (2, 5) ,

N (0, 2) , and P (3, -2).



11.

Vocabulary The *slope* of a line is the ratio of its ? to its ? . (*rise* or *run*)

12. Explain how to find the slope of a line when given two points.

13. Compare the slopes of horizontal and vertical lines.

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Pairs of Lines		
Type	Slopes	Example
Parallel		
Perpendicular		

